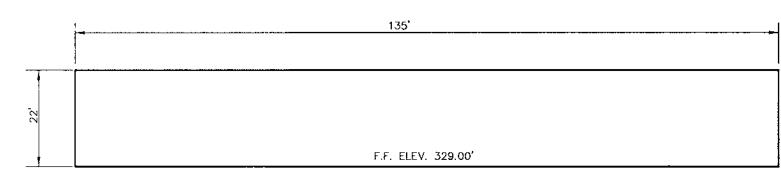
# **GENERAL NOTES**

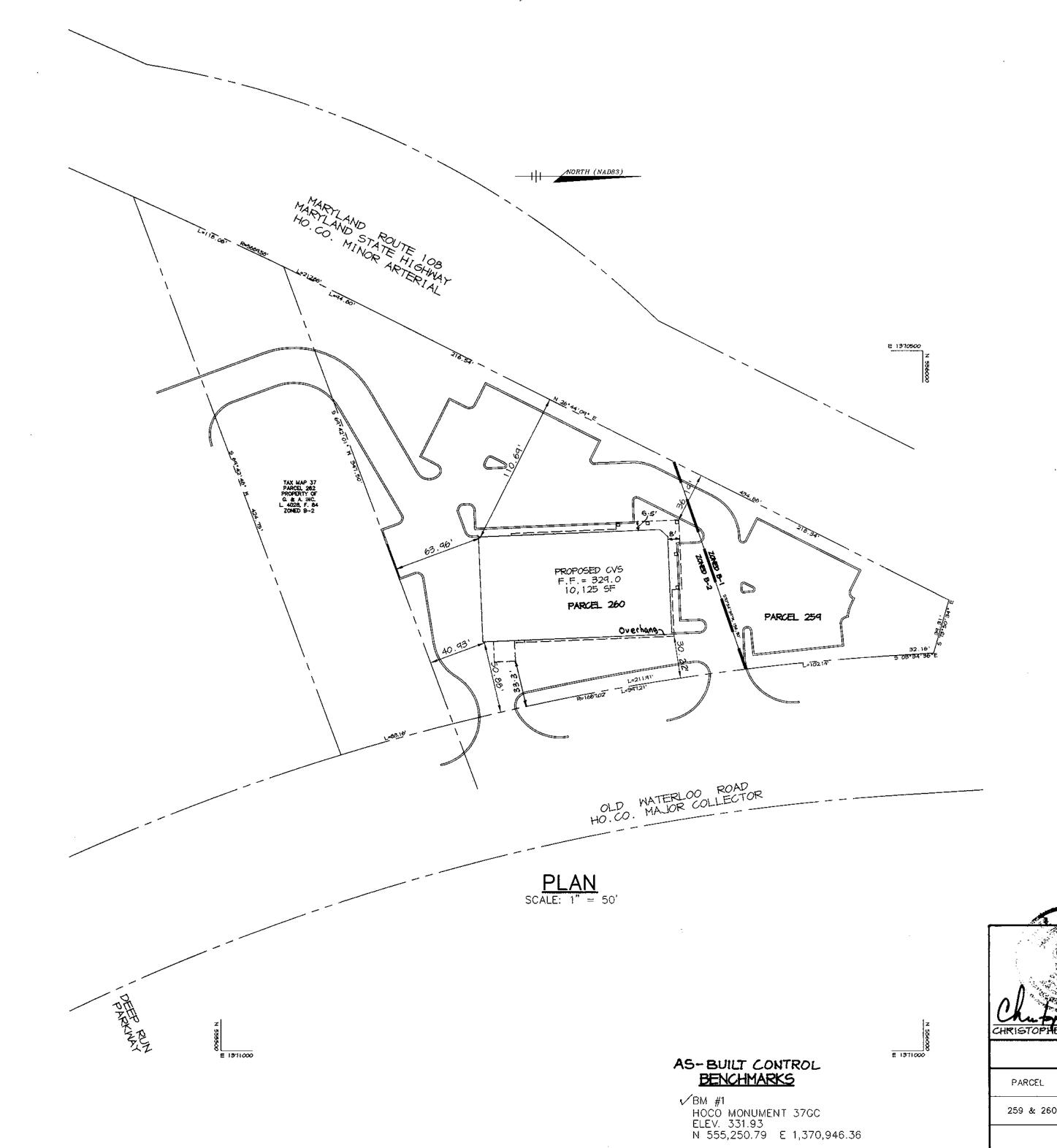
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY PLUS MSHA STANDARDS AND SPECIFICATIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING/ CONSTRUCTION INSPECTION DIVISION AT (410) 313-1880 AT LEAST FIVE (5) WORKING DAYS PRIOR
- THE CONTRACTOR SHALL NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION WORK BEING DONE.
- TRAFFIC CONTROL DEVICES, MARKINGS, AND SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL STREET AND REGULATORY SIGNS SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF ANY ASPHALT.
- ALL PLAN DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
- THE EXISTING TOPOGRAPHY IS TAKEN FROM FIELD SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY RIEMER MUEGGE & ASSOC. DATED AUGUST, 1997.
- THE COORDINATES SHOWN HEREON ARE BASED UPON THE HOWARD COUNTY GEODETIC CONTROL WHICH IS BASED UPON THE MARYLAND STATE PLANE COORDINATE SYSTEM. STATION NUMBERS 37GC AND 37HC WERE USED.
- WATER IS PUBLIC, CONTRACT NO. 320-W.
- SEWER IS PUBLIC. SEWER DRAINAGE AREA: DORSEY TREATMENT PLANT: DORSEY RUN PUMPING STATION CONTRACT NO. 24-3629-D.
- STORMWATER MANAGEMENT IS PROVIDED VIA A BAYSAVER UNIT AND AN EXPANSION OF THE OFF-SITE RETENTION POND CONSTRUCTED UNDER SDP-97-106. A SHARED MAINTENANCE AGREEMENT FOR USE OF THE PRIVATE SWM FACILITY HAS BEEN RECORDED IN THE LAND RECORDS OFFICE OF HOWARD COUNTY, MD. AS LIBER NO. 4834 / FOLIO NO. 520.
- APPROXIMATE LOCATION OF EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION.
- 12. A 100-YEAR FLOODPLAIN STUDY IS NOT REQUIRED FOR THIS PROJECT.
- A NOISE STUDY IS NOT REQUIRED FOR THIS PROJECT.
- 14. THE GEOTECHNICAL STUDY FOR THIS PROJECT WAS PERFORMED BY LAW ENGINEERING AND ENVIRONMENTAL SERVICES, INC. AND IS DATED JUNE 18, 1996. A SUPPLEMENTAL STORMWATER MANAGEMENT GEOTECHNICAL REPORT WAS PERFORMED BY ENGINEERING CONSULTING SERVICES DATED APRIL, 1997.
- 15. THE BOUNDARY SURVEY FOR THIS PROJECT WAS PERFORMED BY RIEMER MUEGGE & ASSOCIATES, INC. DATED MAY, 1997.
- 16. SUBJECT PROPERTY ZONED B-1 & B-2 PER 10-18-93 COMPREHENSIVE ZONING PLAN.
- 17. ALL ELEVATIONS SHOWN ARE BASED ON THE U.S.C. AND G.S. MEAN SEA LEVEL DATUM, 1929.
- 18. SEE DEPARTMENT OF PLANNING AND ZONING FILE NO'S SDP-97-106, F-98-56(FOOD LION SITE)
- THE CONTRACTOR SHALL TEST PIT EXISTING UTILITIES AT LEAST (5) DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.
- 21. PIPE SHALL NOT BE INSTALLED BY THE CONTRACTOR UNTIL THE LENGTH CALLED FOR AT EACH STATION HAS BEEN APPROVED BY THE ENGINEER IN THE FIELD.
- NO PIPE SHALL BE LAID UNTIL LINES OF EXCAVATION HAVE BEEN BROUGHT WITHIN 6"
- ALL STORM DRAIN PIPE BEDDING SHALL BE CLASS 'C' AS SHOWN IN FIG. 11.4, VOLUME 1 OF HOWARD COUNTY DESIGN MANUAL UNLESS OTHERWISE NOTED.
- ALL INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOWARD COUNTY STANDARDS.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT OF ELEVATIONS.
- STORM DRAIN TRENCHES WITHIN ROAD RIGHT OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH THE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, i.e., STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION, LATEST AMENDMENTS.
- PROFILES STATIONS SHALL BE ADJUSTED AS NECESSARY TO CONFORM TO PLAN
- ALL FILL AREAS WITHIN ROADWAY AND UNDER STRUCTURES TO BE COMPACTED TO A MINIMUM OF 95% COMPACTION OF AASHTO TI80.
- THERE ARE NO WETLANDS ON—SITE FOR THIS PROJECT BASED ON A FIELD INSPECTION CONDUCTED BY RMA, INC. ON MARCH, 1999.
- A LANDSCAPE PLAN HAS BEEN PREPARED IN ACCORDANCE TO SECTION 16.124 OF THE HOWARD COUNTY CODE AND LANDSCAPE MANUAL FOR THIS SITE. SEE SHEET 8 FOR THE REQUIRED FINANCIAL SURETY.
- A CROSS-EASEMENT TO UTILIZE THE USE-IN-COMMON ACCESS EASEMENT ACROSS PARCELS A AND B OF THE FOOD LION SITE AND PARCEL 262 HAS BEEN RECORDED IN THE LAND RECORDS OFFICE OF HOWARD COUNTY, MARYLAND, AS LIBER4834, FOLIO 561
- THE FOREST CONSERVATION OBLIGATIONS INCURRED BY THIS PROJECT (0.23 ACRES OF AFFORESTATION) HAS BEEN MET BY PAYMENT OF A FEE-IN-LIEU IN THE AMOUNT OF \$3005.64.
- DESIGN MANUAL WAIVER REQUEST DATED 3-24-99 WAIVING SECTIONS 5.2.6A, 5.2.6D-1, 5.2.6.E AND 5.2.6.F WERE APPROVED BY DEVELOPMENT ENGINEERING DIVISION ON 4-21-99 AND 6-24-99.



NOTE: SEE ARCHITECTURAL DRAWINGS FOR COMPLETE BUILDING DETAILS AND ELEVATIONS. WEST ELEVATION - BUILDING A

# SITE DEVELOPMENT PLAN

RETAIL STORE 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

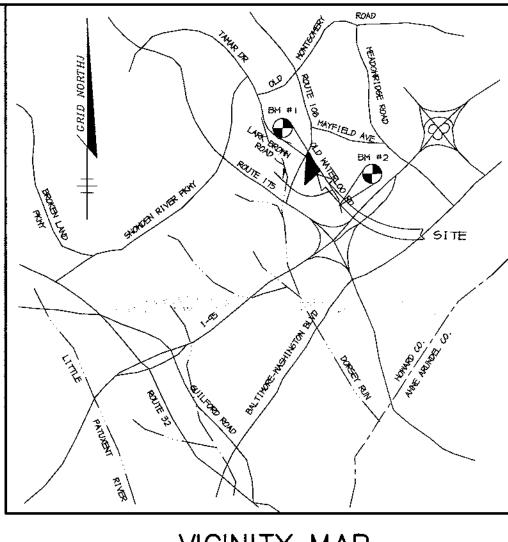


√BM #2

ELEV. 291.79

HOCO MONUMENT 37HC

N 552,854.21 E 1,372,639.50



# VICINITY MAP

### SITE ANALYSIS

AREA OF PARCEL 259 AREA OF PARCEL 260

DISTURBED AREA PRESENT ZONING PROPOSED USE BUILDING COVERAGE

# OF PARKING SPACES REQUIRED @ 5.0 SP/1000 SF

# OF PARKING SPACES PROVIDED

PAVED AREA

AS BUILT CERTIFICATE

ADDRESS CHART

SEWER CODE

CVS PHARMACY

E08

14 4 20

N/A

STREET ADDRESS

6480 OLD WATERLOO ROAD

7.12.00

259 \$ 260

3460000

CENSUS TRACT

6067.03

0.328 ACRES (14,267 SF) 1.215 ACRES (52,924 SF) TOTAL: 1.543 ACRES (67191 SF) 2.30 ACRES (100,188.00 SF) B-1 & B-2 10,094 SF (15.02% OF SITE) 51 SPACES 52 SPACES (3 HC) 52,272 SF (77.80% OF SITE)

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE MANGUMMA CHIEF, DEVELOPMENT ENGINEERING DIVISION CHIEF, DIVISION OF LAND DEVELOPMENT DATE NO. REVISION

7533 GLENEAGLE DR. JESSUP, MD 20794 (410)799-4655

DEVELOPER

AUDREY OWENS ETAL

OWNER

ASTON PROPERTIES 6525 MORRISON BLVD., SUITE 300 CHARLOTTE, NC 28211

( 704) 366-7337

OWNER

M HOSPITALITY MANAGEMENT,INC

6251 WASHINGTON BLVD.

ELKRIDGE, MD 21075

(410)379-3095

PROJECT

TITLE

CVS RETAIL STORE

Parcels 259 & 260 Tax Map 37 Block 14, 20 Zoned B-1, B-2 6th Election District Howard County, Maryland

TITLE SHEET

RIEMER MUEGGE & ASSOCIATES INC ENGINEERING ◆ ENVIRONMENTAL SERVICES ◆ PLANNING ◆ SURVEYING 8818 Centre Park Drive, Columbia, MD 21045 tel 410.997.8900 fax 410.997.9282



DESIGNED BY : C.J.R. DRAWN BY : D.A.M. PROJECT NO :98313 SDP1.DWG DATE : OCTOBER 13, 1999 SCALE : AS SHOWN

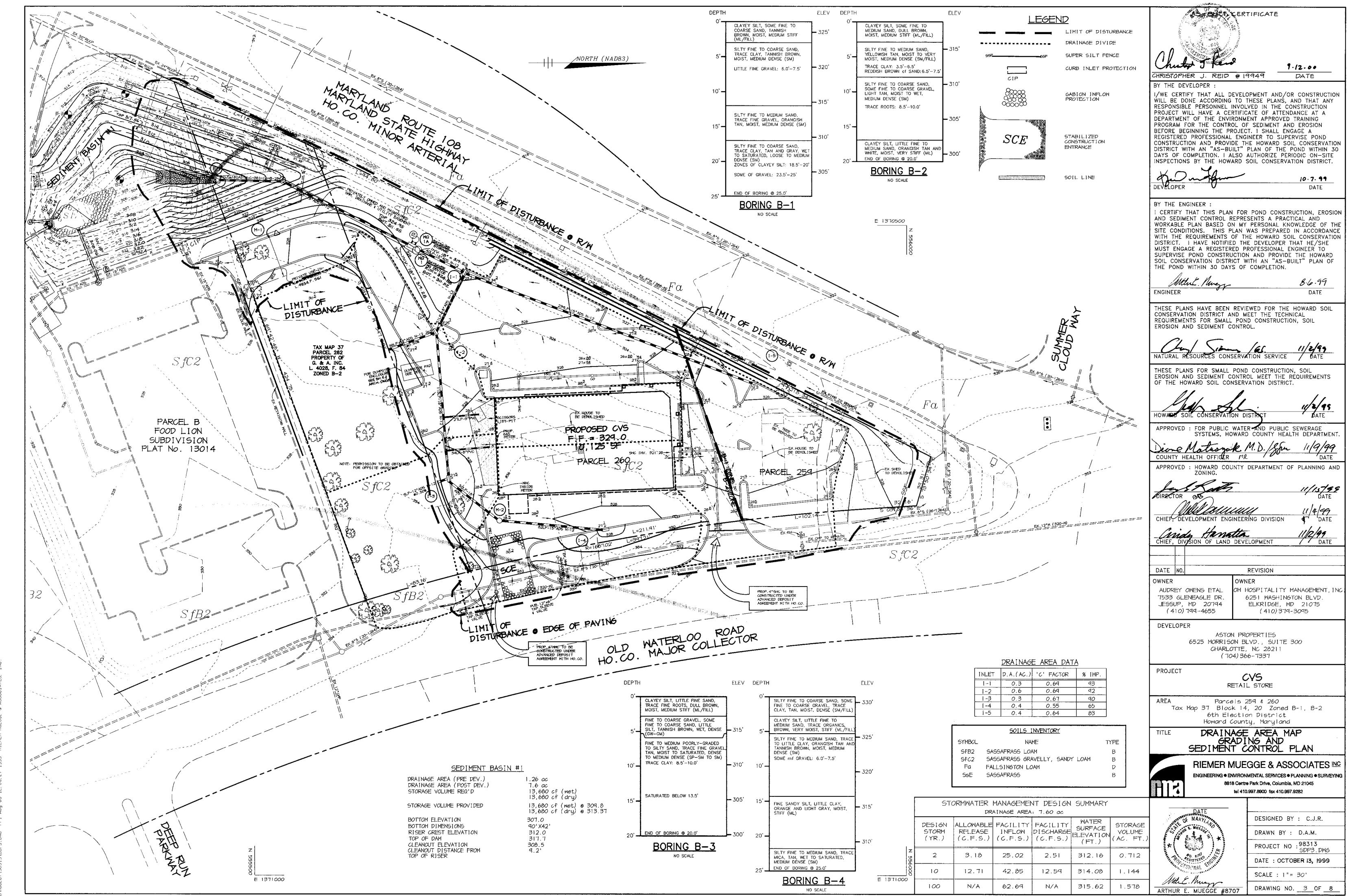
DRAWING NO. 1 OF 8

AS- BUILT 9/11/00 SDP-99-123

ARTHUR E. MUEGGE #8707

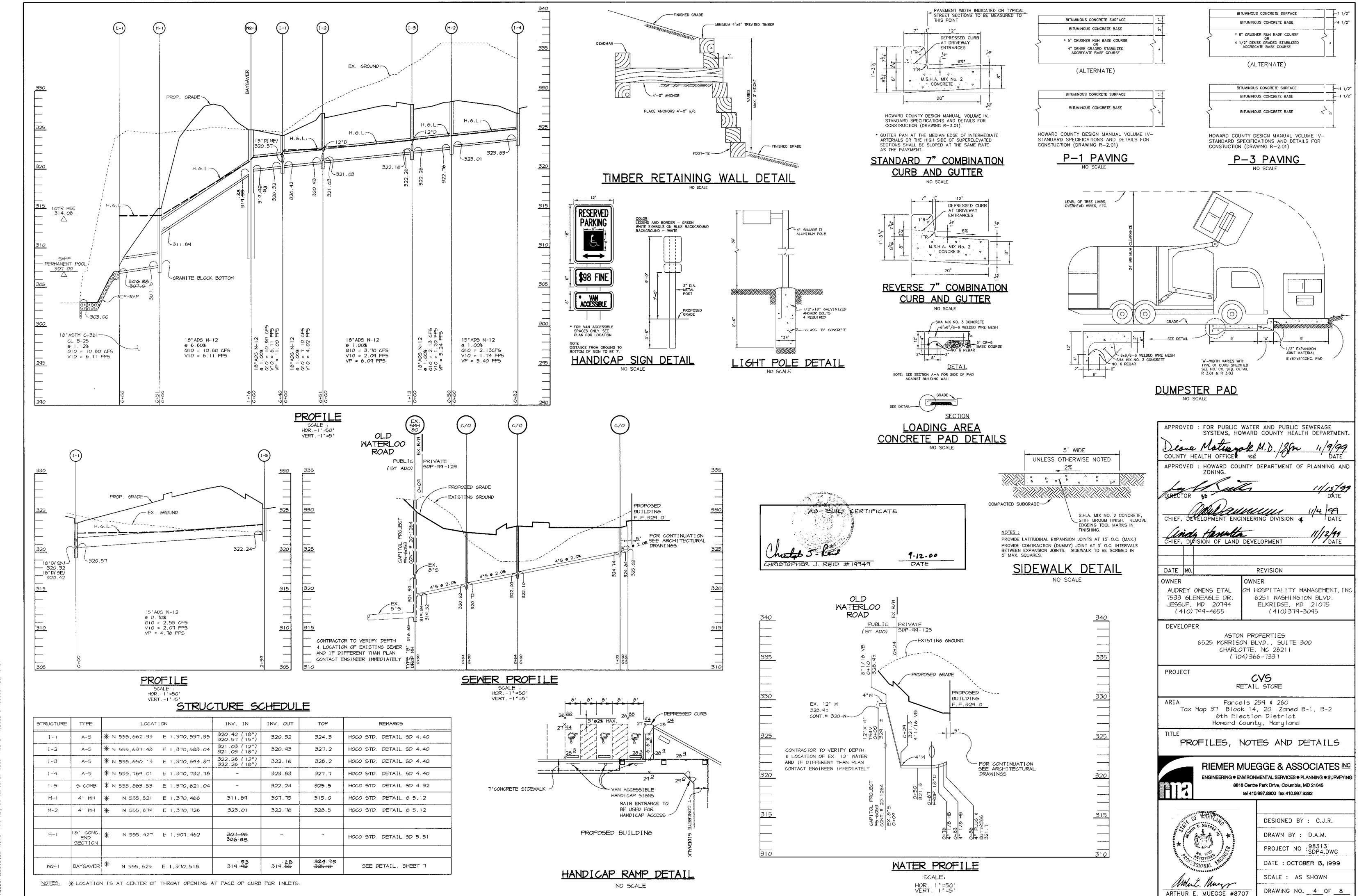
ARTHUR E. MUEGGE #8707

DRAWING NO. 2 OF 8



2011M FEMALE 6001 CC 60 CL 30 E.A. 101 OND CORD (CASO (YOUR ORD) A.

AS-BUILT 9/11/00 SDP-99-123



AS-BUILT 9/11/00 SDP-99-123

Soil Amendments: Apply 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.)

<u>Seeding : For periods March ! thru April 30 and from August 15 thru</u> November 15, seed with 2-1/2 bushels per acre of annual rue (3.2 lbs per 1000 sq.ft.). For the period May 1 thru August 14, seed with 3 lbs. per acre of weeping lovegrass (0.07 lbs. per 1000 sq.ft.). For the period November 16 thru February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sa.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Refer to the 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL for rate and methods not covered.

### PERMANENT SEEDING NOTES

Apply to graded or cleared areas not subject to immediate further disturbance where a permanent long-lived vegetative cover is needed.

<u>Seedbed Preparation: Loosen upper three Inches of soil by raking.</u> discing or other acceptable means before seeding, if not previously

<u>Soll Amendments : In lieu of soil test recommendations, use one of</u> the following schedules

- Preferred Apply 2 tons per acre dolomitic limestone (92 ibs per 1000 sq.ft.) and 600 lbs. per acre 10-10-10 fertilizer (14 lbs. per 1000 sq.ft.) before seeding. Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs. per acre 30-0-0 ureaform fertilizer (9 lbs. per 1000 sq.ft.).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs. per 1000 sq.ft.) and 1000 lbs. per acre 10-10-10 fertilizer (23 ibs. per 1000 sq.ft.) before seeding. Harrow or disc into

Seeding: For the period March | thru April 30 and from August | thru October 15, seed with 60 lbs. per acre (1.4 lbs. per 1000 sq.ft.) of Kentucky 3: Tail Fescue. For the period May 1 thru July 31, seed with 60 lbs. Kentucky 31 Tall Fescue per acre and 2 lbs. per acre (0.05 lbs. per 1000 sq.ft.) of meeping lovegrass. During the period October 16 thru February 28, protect site by one of the following options

- 1) 2 tons per acre of well-anchored mulch straw and seed as soon as possible in the spring.
- 2) Use sod.
- 3) Seed with 60 lbs. per acre Kentucky 31 Tall Fescue and mulch with 2 tons per acre well anchored straw.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs. per 1000 sq.ft.) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gal. per acre (5 gal. per 1000 sq.ft.) of emulsified asphalt on flat areas. On slopes, 8 ft. or higher, use 347 gal. per acre (8 gal. per 1000 sq.ft.) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

# SEDIMENT CONTROL NOTES

- . A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES, AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (313-1855)
- 2. ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: A) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3:1, B) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4. ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL FROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SEC. 6.) TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7. SITE ANALYSIS:
- TOTAL AREA OF SITE AREA DISTURBED AREA TO BE ROOFED OR PAVED

ELEVATION SHOWN ON THE PLANS

- 1.54 ACRES 2.3 ACRES 1.2 ACRES AREA TO BE VEGETATIVELY STABILIZED 1 1 ACRES TOTAL CUT 7514 CU. YARDS 450 CU, YARDS OFFSITE WASTE/BORROW AREA LOCATION TO HAVE AN ACTIVE GRADING PERMIT
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT
- 12. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL, STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT
- CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK. 13. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 AC., APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION
- OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- 14. TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH CAN BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

### 21.0 STANDARD AND SPECIFICATIONS TOPSOIL

Placement of topsoll over a prepared subsoll prior to establishment of permanent vegetation

To provide a suitable soil medium for vegetative growth. Soils of concern have low moisture content, law nutrient levels, law pH, materials toxic to plants, and/or unacceptable soil gradation

### Conditions, Where Prostice, Applica

- I. This practice is limited to areas having 2:1 or flatter slopes where: a. The texture of the exposed subsoll/parent material is not adequate to produce vegetative growth. b. The soil material is so shallow that the rooting zone is not deep enough to support plants or
- furnish continuing supplies of moisture and clant nutrients
- c. The original soil to be vegetated contains material toxic to plant growth. d. The soil is so goldic that treatment with Umestone is not feasible.
- II. For the purpose of these Standards and Specifications, areas having slopes steeper than 2:1 require special consideration and design for adequate stabilization. Areas having slopes steeper than 2:1 shall have the appropriate stabilization shown on the plane.

### Construction and Material Specifications

I. Topsoil salvaged from the existing site may be used provided that it meets the standards as set forth in these specifications. Typically, the depth of topsoil to be salvaged for a given soil type can be found in the representative soil profile section in the Soil Survey published by USPA-SCS in cooperation with Maryland Agricultural Experimentation Station

- II. Topsoil Specifications Soil to be used as topsoil must meet the following:
- Topsol shall be a loom, sandy foam, clay loom, stilt loom, sandy clay loom, loomy sand. Other solls may be used if recommended by an agronomist or soll scientist and approved by the appropriate approval authority. Regardless, topsoil shall not be a mixture of contrasting textured subsoils and shall contain less than 5% by values of cinders, stones, slag, coares fragments, gravel, sticks, roots, trash, or other materials larger than 14" in diameter
- 11. Topacil must be free of plants or plant parts such as bermuda grass, quackgrass, Johnsongrass nutsedge, poison ivy, thistle, or others as specified.
- ill. Where subsoil is either highly acidic or composed of heavy clays, ground limestone shall be spread at the rate of 4-8 tons/acre (200-400 pounds per 1,000 square feet) prior to the placement of topsoil. Lime shall be distributed uniformly over designated areas and worked into the soil In conjunction with tillage operations as described in the following procedures
- For sites having disturbed areas under 5 acres
- I. Place topsoll (If required) and apply soll amendments as specified in 20,0 Yegetatixe Stabilization - Section 1 - Vegetative Stabilization Methods and Materials

### III. For altes having disturbed areas over 5 acres-

formation of depressions or water pockets.

- 1. On soil meeting Topsoil specifications, obtain test results dictating fertilizer and lime amendments required to bring the soil into compliance with the following:
- a. pH for topsoil shall be between 6.0 and 7.5. If the tested soil demonstrates a pH of less than 6.0, sufficient lime shall be prescribed to raise the pH to 6.5 or higher.
- b. Organic content of topeoil shall be not less than 1.5 percent by weight.
- c. Topsoil having soluble sait content greater than 500 parts per milition shall not be used.
- d. No sod or seed shalf be placed on soil which has been treated with soil sterilants or chemicals used for weed control until sufficient time has elapsed (14 days min.) to permit

Note: Topsoll substitutes to amendments, as recommended by a qualified agronomist or soil scientist and approved by the appropriate approval authority may be used in iteu of natural topsoil.

- [1] Place topsol! (If required) and apply soll amendments as specified in 20,0 Yegetative Stabilization Section I Vegetative Stabilization Methods and Materials.
- V. Topsoil Application
- 1. When toppoiling, maintain needed ergeton and sediment control practices such as diversions.

Grade Stabilization Structures, Earth Dikes, Slope Slit Fence and Sediment Traps and Basins.

- 11. Grades on the areas to be topsoiled, which have been previously established, shall be
- maintained, albeit 4" 8" higher in elevation. (i). Topsoil shall be uniformly distributed in a 4" - 8" layer and lightly composted to a minimum thickness of 4°. Spreading shall be performed in such a manner that sodding or seeding can proceed with a minimum of additional soil preparation and tiliage. Any irregularities in the surface resulting from topsoiling or other operations shall be corrected in order to prevent the
- (v. Tappa) | shall not be piaced while the tappa) | or subsoil is in a frazen or muddu condition, when the subsolite excessively wet on in a condition that may otherwise be detrimental to proper
- VI. Alternative for Permanent Seeding instead of applying the full amounts of time and commercial fertilizer, composted sludge and amendments may be applied as specified below.
- . Composted Studge Material for use as a soil conditioner for sites having disturbed areas over 5 acres shall be tested to prescribe amendments and for site having disturbed areas under 5 acres shall conform to the following requirements:
- a. Composted sludge shall be supplied by, or originate from, a person or persons that are permitted (at the time of acquisition of the compost) by the Maryland Department of the
- b. Composted sludge shall contain at least 1 percent nitrogen, 1.5 percent phosphorus, and 0.2 percent potassium and have a pH of 7.0 to 8.0. If compost does not meet these requirements the appropriate constituents must be added to meet the requirements prior to use.
- c. Composted sludge shall be applied at a rate of 1 ton/1,000 square feet.
- d. Composted studge shall be amended with a potassium fertilizer applied at the rate of 4 lb/1,000

References: Guideline Specifications, Soil Preparation and Sodding. MD-VA, Pub. #1, Cooperative Extension Service, University of Maryland and Virginia Polytechnic Institutes. Revised 1973.

# SEQUENCE OF CONSTRUCTION

- I. OBTAIN GRADING PERMIT
- INSTALL STABILIZED CONSTRUCTION ENTRANCE, SILT FENCE AND SUPER SILT FENCE. ENLARGE SMMF/SEDIMENT BASIN (SDP-97-106) PER GRADING PLAN. USE SEDIMENT CONTROL DETAILS PER SDP-97-106 DURING ENLARGEMENT OF SWMF/SEDIMENT BASIN. (3 WEEKS)
- WITH PERMISSION OF HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR, PERFORM ROUGH GRADING. OBTAIN BUILDING PERMIT AND BEGIN BUILDING AND WALL CONSTRUCTION. (2 WEEKS)
- 4. AS SUBGRADE ELEVATIONS ARE ESTABLISHED, INSTALL UTILITIES INCLUDING STORM DRAINS, WATER, AND SEWER. (2 WEEKS)
- INSTALL CURB AND GUTTER, THEN PAVE. (2 WEEKS)
- 6. APPLY TOPSOIL AND STABILIZE DISTURBED AREAS AS NECESSARY IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (3 DAYS)
- INSTALL LIGHTS, LANDSCAPING, SIGNS, AND STRIPING, AND COMPLETE REMAINING BUILDING CONSTRUCTION. (2 MONTHS)
- UPON APPROVAL OF HOWARD COUNTY DILP SEDIMENT CONTROL INSPECTOR AND UPON THE PERMANENT STABILIZATION OF ALL AREAS DRAINING TO THE BASIN INCLUDING SDP-97-106. REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND CONVERT SEDIMENT BASIN TO PERMANENT SWMF IN THE FOLLOWING STEPS:
- a. CLEAN STORM DRAIN INLETS AND FLUSH OUT PIPES, (I DAY) . PUMP OUT STANDING WATER IN BASIN USING PUMPING STATION, (1 DAY) REMOVE ACCUMULATED SEDIMENT, (2 DAYS)
- COMPLETE/REPAIR GRADING PER SHEET 2, REMOVE DEWATERING DEVICE, ORIFICE PLATE, AND PLYMOOD FROM SEDIMENT BASIN #1 (2 DAYS) e. INSTALL PERMANENT LOW FLOW PIPE, (1 DAY)
- INSTALL RIP-RAP, (1 DAY) g. STABILIZE REMAINING DISTURBED AREAS IN ACCORDANCE WITH PERMANENT SEEDING NOTES. (2 DAYS)

Specifications for Critical Area Planting (MD-342) or as shown on the accompanying drawings. EROSION AND SEDIMENT CONTROL

Refer to the 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL

# MD-378 STANDARDS AND SPECIFICATIONS

SPECIFICATIONS

These specifications are appropriate to all ponds within the scope of the Standard for practice MD-378. All references to ASTM and AASHTO specifications

apply to the most recent version. SITE PREPARATION

other objectionable material shall be removed. Channel banks and sharp breaks shall be sloped to no steeper than 1:1. Areas to be covered by the reservoir will be cleared of all trees, brush, logs, fences, rubbish and other objectionable material unless otherwise designated on the plans. Trees, brush and stumps shall be out approximately level with the ground surface. For dry stormwater management ponds, a minimum of a 50 foot

Areas designated for borrow areas, embankment, and structural works shall be

cleared, grubbed and stripped of topsoil. All trees, vegetation, roots and

All cleared and grubbed material shall be disposed of outside and below the limits of the dam and reservoir as directed by the owner or his representative When specified, a sufficient quantity of topsoil will be stockpiled in a suitable location for use on the embankment and other designated areas.

adius around the inlet structure shall be cleared.

Material — The fill material shall be taken from approved designated borrow areas. It shall be free of roots, stumps, wood, rubbish, stones greater than 6", frozen or other objectionable material. Fill material for the center of the embankment and cut off trench shall conform to Unified Soil Classification GC, SC, CH, or CL. Consideration may be given to the use of other materials in the embankment if design and construction are supervised by a geotechnical engineer.

Placement — Areas on which fill is to be placed shall be scarified prior to placement of fill. Fill materials shall be placed in maximum 8-inch thick (before compaction) layers which are to be continuous over the entire length of the fill. The most permeable borrow material shall be placed in the downstream portions of the embankment. The principal spillway must be installed concurrently with fill placement and not excavated into the embankment.

Compaction — The movement of the hauling and spreading equipment over the fill shall be controlled so that the entire surface of each lift shall be traversed by not less than one tread track of the equipment or compaction shall be achieved by a minimum of four complete passes of a sheepsfoot, rubber tire or vibratory roller. Fill material shall contain sufficient moisture such that the required degree of compaction will be obtained with the equipment used. The fill material shall contain sufficient moisture so that if formed into a ball it will not crumble yet not be so wet that water can be squeezed out

maximum dry density with a maisture content within +/- 2% of the optimum. Each layer of fill shall be compacted as necessary to obtain that density, and is to be certified by the Engineer at the time of construction. All compaction is to he determined by AASHTO Method T-99 Cutoff Trench — The cutoff trench shall be excavated into impervious material

Where a minimum required density is specified, it shall not be less than 95% of

along or parallel to the centerline of the embankment as shown on the plans. The bottom width of the trench shall be governed by the equipment used for excavation, with the minimum width being four feet. The depth shall be at least four feet below existing grade or as shown on the plans. The side slopes of the

The back fill shall be compacted with construction equipment, rollers, or hand tampers to assure maximum density and minimum permeability. STRUCTURE BACKFILL

Backfill adjacent to pipes or structures shall be of the type and quality conforming to that specified for the adjoining fill material. The fill shall be placed in horizontal layers not to exceed four inches in thickness and compacted by hand tampers or other manually directed compaction equipment. The materia needs to fill completely all spaces under and adjacent to the pipe. At no time during the backfilling operation shall driven equipment be allowed to operate closer than four feet, measured horizontally, to any part of a structure. Under no circumstances shall equipment be driven over any part of a concrete structure or pipe, unless there is a compacted fill of 24" or greater over the structure

PIPE CONDUITS

All pipes shall be circular in cross section.

Reinforced Concrete Pipe - All of the following criteria shall apply for reinforced concrete pipe:

- 1. Materials Reinforced concrete pipe shall have bell and spigot joints with rubber gaskets and shall equal or exceed ASTM Designation C-361. An approved equivalent is AWWA Specification C-302
- 2. Bedding All reinforced concrete pipe conduits shall be laid in a concrete bedding for their entire length. This bedding shall consist of high slump concrete placed under the pipe and up the side of the pipe at least 10% of its outside diameter with a minimum thickness of 3 inches, or as shown on
- 3. Laying pipe Bell and spigot pipe shall be placed with the bell end upstream. Joints shall be made in accordance with recommendations of the manufacturer of the material. After the joints are sealed for the entire line, the bedding shall be placed so that all spaces under the pipe are filled. Care shall be exercised to prevent any deviation from the original line and grade of the pipe. The first joint must be located within 2 feet
- 4. Backfilling shall conform to Structure Backfill.
- 5. Other details (anti-seep collars, valves, etc.) shall be as shown on the

State Highway Administration Standard Specifications for Construction and

# CONCRETE

Materials, Section 608, Mix No. 3. All rock shall be dense, sound, and free from cracks, seams, and other defects

Concrete shall meet the requirements of Maryland Department of Transportation,

conducive to accelerated weathering. The rock fragments shall be angular to subrounded in shape. The least dimension of an individual rock fragment shall be not less than one—third the greatest dimension of the fragment.

# The rock shall have the following properties:

- 1. Bulk specific gravity (saturated surface-dry basis) not less than 2.5.
- Absorption not more than three percent.
- 3. Soundness: Weight loss in five cycles not more than 20 percent when sodium

### Bulk specific gravity and absorption shall be determined according to ASTM C 127. The test for soundness shall be performed according to ASTM C 88.

The riprap shall be placed to the required thickness in one operation. The rock shall be delivered and placed in a manner that will insure the riprap in place shall be reasonably homogeneous with the larger rocks uniformly distributed and firmly in contact one to another with the smaller rocks filling the voids between the larger rocks. Filter cloth shall be placed under all riprap and shall meet the requirements of Moryland Department of Transportation. State Highway Administration Standard Specifications for Construction and Materials.

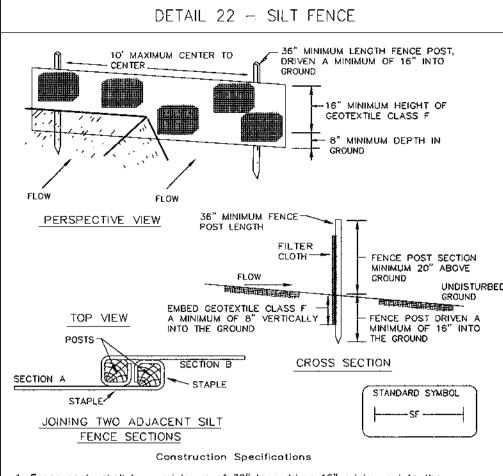
# CARE OF WATER DURING CONSTRUCTION

All work on permanent structures shall be carried out in areas free from water. The Contractor shall construct and mointain all temporary dikes, levees. cofferdams, drainage channels, and stream diversions necessary to protect the areas to be occupied by the permanent works. The contractor shall also furnish, install, operate, and maintain all necessary pumping and other equipment required for removal of water from the various parts of the work and for maintaining the excavations, foundation, and other parts of the work free from water as required or directed by the engineer for constructing each part of the work. After having served their purpose, all temporary protective works shall be removed or leveled and graded to the extent required to prevent obstruction in any degree whatsoever of the flow of water to the spillway or outlet works and so as not to interfere in any way with the operation or maintenance of the structure. Stream diversions shall be maintained until the full flow can be passed through the permanent works. The removal of water from the required excavation and the foundation shall be accomplished in a manner and to the extent that will maintain stability of the excavated slopes and bottom of required excavations and will allow satisfactory performance of all construction operations. During the placing and compacting of material in required excavations, the water level at the locations being refilled shall be maintained below the bottom of the excavation at such locations which may require draining the water to sumps from which the water shall be pumped.

All borrow areas shall be graded to provide proper drainage and left in a sightly condition. All exposed surfaces of the embankment, spillway, spoil and borrow areas, and berms shall be stabilized by seeding, liming, fertilizing and mulching in accordance with the Maryland Soil Conservation Service Standards and

Construction operations will be carried out in such a manner that erosion will be controlled and water and air pollution minimized. State and local laws concerning poliution abatement will be followed. Construction plans shall detail erosion and sediment control measures to be employed during the

EROSION AND SEDIMENT CONTROL for rate and methods not covered.



. Fence posts shall be a minimum of 36" long driven 16" minimum into the ground. Wood posts shall be  $11/2" \times 11/2"$  square (minimum) cut, or 13/4" diameter (minimum) round and shall be of sound audity hardwood. Steel posts will be standard T or U section weighting not less than 1.00 band per linear foot 2. Geotextile shall be fastened securely to each fence post with wire ties or staples at top and mid-section and shall meet the following requirements

Test: MSMT 509 Tensile Strength 50 lbs/in (min.) Tensile Modulus 20 lbs/in (min.) Test: MSMT 509 Flow Rate 0.3 gal ft // minute (max.) Test: MSMT 322 Filtering Efficiency 75% (min.) Test: MSMT 322 . Where ends of geotextile fabric come together, they shall be overlapped,

11'-0" X 11'-0" CONC. APRON ---

2" MESH (9 GA.) GALY

WITH FIBERGLASS

WIRE MESH

MAX. DRAINAGE AREA = 1/4 ACR

the weir and the inlet face (max. 4' apart).

entering the inlet under or around the geotextile.

and stone replaced when clogged with sediment.

U.S. DEPARTMENT OF AGRICULTURE

DIL CONSERVATION SERVICE

earth or asphalt dike to direct the flow to the inlet.

both ends of the throat opening.

2" X 4" WEIR

Construction Specifications

4') to the 2" x 4" weir (measuring throat length plus 2') as shown on the standard

2. Place a continuous piece of Geotextile Class E the same dimensions as the wire

3. Securely nail the 2" X 4" weir to a 9" long vertical spacer to be located between

4. Place the assembly against the inlet throat and nail (minimum 2' lengths of

 $2" \times 4"$  to the top of the weir at spacer locations). These  $2" \times 4"$  anchors shall

extend across the inlet top and be held in place by sandbags or alternate weight.

against the face of the curb on both sides of the inlet. Place clean 3/4 " x 1 1/2

stone over the wire mesh and geotextile in such a manner to prevent water from

7. This type of protection must be inspected frequently and the filter cloth

8. Assure that storm flow does not bypass the inlet by installing a temporary

6. Form the 1/2 " x = 1/2 " wire mesh and the geotextile fabric to the concrete gutter and

5. The assembly shall be placed so that the end spacers are a minimum 1' beyond

mesh over the wire mesh and securely attach it to the 2" x 4" weir.

CHAIN-LINK ENCLOSURE

folded and stapled to prevent sediment bypass 4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

CLEAR GATE OPENING

TRASH ENCLOSURE PLAN

DETAIL 23C - CURB INLET PROTECTION

- 2" X 4" ANCHORS

2" X 4" SPACER

1. Attach a continuous piece of wire mesh (30" minimum width by throat length plus

-PROVIDE STL

SLEEVE SET

CANE BOLT

FRAME

- 2" O.D. GALV. PIPE

GATE W/ WELDED

-3" O.D. (11 GA.)

- 6" THICK SEALED

SITE DWGS. FOR

-2" O.D. (16 GA.)

LINE POSTS

- 2' MINIMUM LENGTH OF 2" X 4"

MARYLAND DEPARTMENT OF ENVIRONMENT

WATER MANAGEMENT ADMINISTRATION

GRADE ELEVATIONS

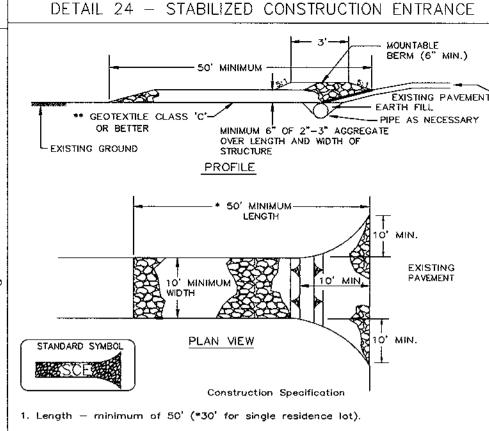
CONCRETE PAD - SEE

- 2\" O.D. (16 GA.)

- 6" BOLLARD, SEE

GATE POSTS

RECEIVER



to placing stone. \*\*The plan approval authority may not require single family

4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the

residences to use geotextile.

entrance.

5. Surface Water - all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance. MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONME WATER MANAGEMENT ADMINISTRATION WATER MANAGEMENT ADMINISTRATIO

10'-0"

9'-9"

CANE BOLT

DETAIL 33 - SUPER SILT FENCE

10' MAXIMUM

WITH I LAYER OF

Construction Specifications

latest Maryland State Highway Details for Chain Link Fencing. The specification

2. Chain link fence shall be fastened securely to the fence posts with wire ties.

The lower tension wire, brace and truss rods, drive anchors and post caps are not

5. When two sections of filter cloth adjain each other, they shall be overlapped

5. Maintenance shall be performed as needed and silt buildups removed when "bulges"

0.3 gal/ft /minute (max.)

7. Filter cloth shall be fastened securely to each fence post with wire ties or

staples at top and mid section and shall meet the following requirements for

50 lbs/in (min.)

20 lbs/in (min.)

3. Filter cloth shall be fastened securely to the chain link fence with ties spaced

. Fencing shall be 42" in height and constructed in accordance with the

for a 6' fence shall be used, substituting 42" fabric and 6' length

4. Filter cloth shall be embedded a minimum of 8" into the ground.

develop in the silt fence, or when silt reaches 50% of fence height

MINIMUM

- 16" MIN. 1ST LAYER OF FILTER CLOTH

LINE OF FND. BELOW -

NOTE: FENCE POST SPACING

SUSTINITIES -

MINIMUM INTO GROUND

REQUIRED TO ATTAIN 42'

\*IF MULTIPLE LAYERS AR

SHALL NOT EXCEED 10 CENTER TO CENTER

VXVXXXXX 7

GROUND

SURFACE

CHAIN LINK FENCING-

EMBED FILTER CLOTH 8"\_\_\_\_

required except on the ends of the fence.

every 24" at the top and mid section.

by 6" and folded.

Geotextile Class F:

Tensile Strength

Flow Rate

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

Tensile Modulus

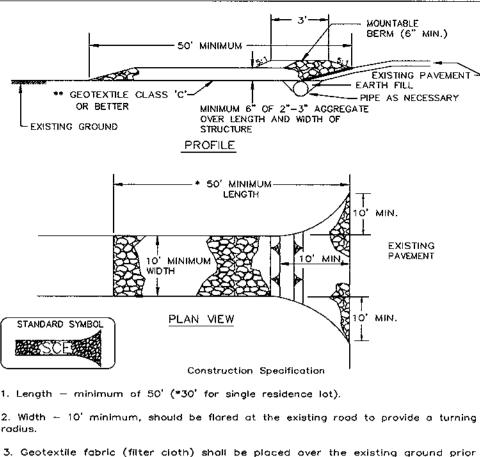
Filtering Efficiency 75% (min.)

FILTER CLOTH-

21/2" DIAMETER

OR ALUMINUM

CHAIN LINK ---



SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL

OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE

COUNTY HEALTH OFFICER SEE ARE 1

CHIEF, DIVISION OF LAND DEVELOPMENT

OWNER AUDREY OWENS ETAL 7533 GLENEAGLE DR.

- LINE OF PIER BELOW

34" MINIMUM

- TANAMAKA

STANDARD SYMBOL

---- SSF ----

1 HOSPITALITY MANAGEMENT,INC 6251 WASHINGTON BLVD. JESSUP, MD 20794 ELKRIDGE, MD 21075 (410)379-3095

(704)366-7337

CVS RETAIL STORE

TITLE SEDIMENT CONTROL



RIEMER MUEGGE & ASSOCIATES INC ENGINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING



DESIGNED BY : C.J.R. DRAWN BY : D.A.M. PROJECT NO :98313 SDP5.DWG

MARYLAND DEPARTMENT OF ENVIRONMENT ARTHUR E. MUEGGE #8707

HRISTOPHER J. REID # 19949 DATE

9.12.00

I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT, I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT.

BY THE DEVELOPER :

BY THE ENGINEER:

ACABUILT CERTIFICATE

10.7.99 DATE

CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO

8.6.99 NGINEER

EROSION AND SEDIMENT CONTROL.

THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS

SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING.

**X**ATE

DATE NO. REVISION OWNER

(410)799-4655

ASTON PROPERTIES 6525 MORRISON BLVD., SUITE 300 CHARLOTTE, NC 28211

**PROJECT** 

Parcels 259 \$ 260 Tax Map 37 Block 14, 20 Zoned B-1, B-2 6th Election District Howard County, Maryland

8818 Centre Park Drive, Columbia, MD 21045 tel 410.997.8900 fax 410.997.9282

DATE : OCTOBER 13, 1999 SCALE : AS SHOWN DRAWING NO. 5 OF 8

AS - BUILT 9/11/00 SDP-99-123

Test: MSMT 509

Test: MSMT 509

Test: MSMT 322

Test: MSMT 322

**DEVELOPER** 

NOTES AND DETAILS

SCALE : HOR.-1"=50'

VERT . -1"=5'

EXISTING GROUND

01.066€D (0ND). 100-YR NGE 315.62 ✓

10-YR NSE V

3" MULCH MAX.

TOPSOIL MIXTURE

- TOP OF CONSTRUCTED DAM 318.2

- PROP. CUTOFF TRENCH UP TO 10 YR. CLOGGED MSE 314.79

& DEPTH CORE TRENCH

NOTE: SEE SHEET 2 FOR SECTION LOCATION.

CUTOFF TRENCH MATERIAL TO BE COMPACTED TO 95% OF AASHTO T-99

- ESTIMATE OF ORIGINAL GROUND

- TOP OF PROP. DAM 317.7

### GEOTECHNICAL RECOMMENDATIONS FOR POND CONSTRUCTION

- 1. STRUCTURE S-4 FOUNDATION MATERIALS TO BE VISUALLY EXAMINED AND TESTED FOR A NET BEARING PRESSURE OF 2500 psf (MIN.) IMMEDIATELY PRIOR TO PLACEMENT OF FOUNDATION CONCRETE.
- 2. PRIOR TO BACKFILLING, EXPOSED SUBGRADE SHALL BE EXAMINED, PROOFROLLED, AND/OR
  PROBED AS NECESSARY AND UNSTABLE MATERIALS SHALL BE REPLACED AND COMPACTED WITH
- 3. DEWATERING DURING CONSTRUCTION SHALL BE ACCOMPLISHED USING INTERCEPTOR TRENCHES, SUMPS, AND/OR PUMPS AS NECESSARY TO TWO FEET BELOW THE BOTTOM OF THE CONSTRUCTION AREA. SUMPS SHALL BE REMOVED AND BACKFILLED WITH CLAYEY SOILS AFTER CONSTRUCTION.
  GRAVEL MAY BE USED TO PROVIDE A WORKING SURFACE. BUT NOT BENEATH THE FOOTPRINT OF THE EMBANKMENT.
- 4. SURFACE RUNOFF SHALL BE DIVERTED AWAY FROM THE LIMITS OF CONSTRUCTION BY BERMING, TRENCHING, AND/OR GRADING AS NECESSARY. THE GROUND SURFACE SHALL BE SEALED WITH A SMOOTH DRUM ROLLER AT THE END OF EACH WORKDAY AND PRIOR TO RAINFALL, WATER SHALL NOT BE ALLOWED TO POND ON TOP OF SLOPE
- 5. A SHEEPSFOOT ROLLER SHALL BE USED FOR COMPACTION; A SMOOTH DRUM ROLLER SHALL BE USED FOR SEALING ONLY.
- 6. A SOIL TECHNICIAN SHALL BE PRESENT DURING FILL OPERATIONS TO OBSERVE AND TEST COMPACTION. DENSITY TESTS SHALL BE I TEST PER 2500 of OF FILL AREA (MIN.) FOR EACH

OPERATION, MAINTENANCE AND INSPECTION

INSPECTION OF THE POND SHOWN HEREON SHALL BE PERFORMED AT LEAST ONCE ANNUALLY, IN ACCORDANCE WITH THE CHECKLIST AND REQUIREMENTS CONTAINED WITHIN USDA, SCS "STANDARDS AND SPECIFICATION FOR PONDS" (MD378). THE POND OWNER AND ANY HEIRS, SUCCESSORS, OR ASSIGNS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE POND AND THE CONTINUED OPERATION, SURVEILLANCE, INSPECTION, AND MAINTENANCE THEREOF. THE POND OWNER SHALL PROMPTLY NOTIFY THE SOIL CONSERVATION DISTRICT OF ANY UNUSUAL OBSERVATIONS THAT MAY BE INDICATIONS OF DISTRESS SUCH AS EXCESSIVE SEEPAGE, TURBID SEEPAGE, SLIDING OR SLUMPING.

### OPERATION AND MAINTENANCE SCHEDULE FOR BAYSAVER WATER QUALITY DEVICE

- 1. Stormceptor water quality structures will require periodic inspection and cleaning to maintain operation and function. Owners will have the Stormceptor unit inspected yearly or as required by Howard County, utilizing the Stormceptor Inspection/ Monitoring Form. Inspections can be done by using a clear Plexiglas tube ("sludge judge") to extract a water column sample. When sediment depths exceed the specified level (Table 6 of Technical Manual) then cleaning of the unit is required.
- 2. Stormceptor water quality structures must be checked and cleaned immediately after petroleum spills. Contact appropriate regulationy agencies.
- 3. Maintenance of Stormceptor units should be done by a vacuum truck which will remove the water, sediment, debris, floating hydrocarbons, and other materials in the unit. The proper cleaning and disposal of the removed materials and liquid must be followed
- 4. Inlet and outlet pipes must be checked for any obstructions and if any obstructions are found they must be removed. Structural parts of the Stormceptor will be repaired as needed.
- 5. Owner shall retain and make Starmceptor Inspection/Monitoring Forms available to Howard County officials upon their request.

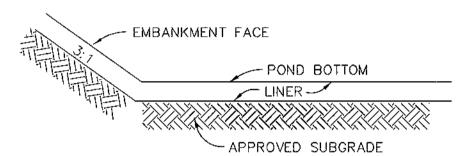
OPERATION AND MAINTENANCE SCHEDULE OF PRIVATELY OWNED AND MAINTAINED STORMWATER MANAGEMENT FACILITY RETENTION POND

### ROUTINE MAINTENANCE

- 1. Facility shall be inspected anually and after major storms. Inspections should be performed during wet weather to determine if the pond is functioning properly.
- 2. Top and side slopes of the embankment shall be moved a minimum of two (2) times a year, once in June and once in September. Other side slopes and maintenance access should be moved as
- 3. Debris and litter next to the outlet structure shall be removed during regular mowing operations and as needed.
- 4. Visible signs of erosion in the pond as well as riprap outlet area shall be repaired as soon as It is noticed.

### NON-ROUTINE MAINTENANCE

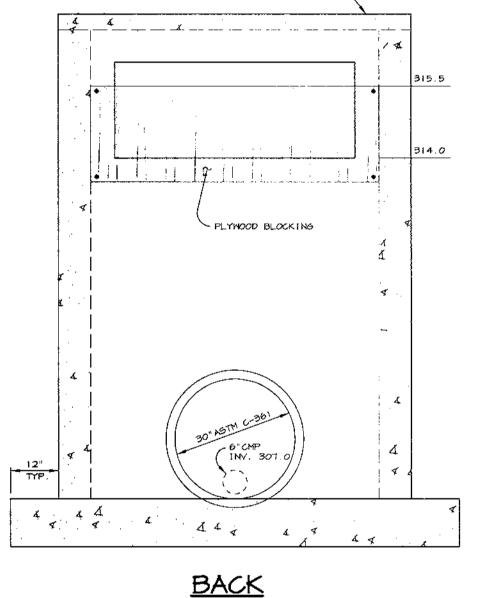
- 1. Structural components of the pond such as the dam, the riser, and the pipes shall be repaired upon the the detection of any damage. The components should be inspected during routine maintenance operations.
- 2. Sediment should be removed when its accumulation significantly reduces the design storage, interferes with the function of the riser, when deemed necessary for desthetic reasons, or when deemed necessary by the Howard County's Department of Public



### LINER NOTES :

- 1. THE LINER SHALL BE AT LEAST 18" THICK PLACED AS COMPACTED FILL IN LOOSE LIFTS OF 8", COMPACTED TO 95% OF THE MAXIMIUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD (ASTM D-698).
- 2. FILL MATERIAL FOR THE LINER SHALL CONSIST OF SILTY OR SANDY CLAY (CL), OR CLAYEY SAND (SC). CLAYEY SAND MATERIALS SHALL HAVE NO LESS THAN 30% PASSING THE No. 200 SIEVE. OTHER BACKFILL MATERIALS MAY BE CONSIDERED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
- 3. THE LINER SUBGRADE SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER TO BE STABLE PRIOR TO BACKFILLING THE LINER.
- . THE LINER SHALL EXTEND VERTICALLY AT LEAST TO THE 10-YEAR WATER SURFACE ELEVATION.

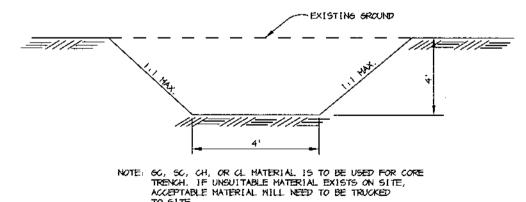
317.0 - PLYWOOD BLOCKING 316.0 315.5 315.0 314.0 313.0 312.0 311.0 310.0 309.0 308.0 - BOTTOM EL 306.90 307.0 4 4 4 FRONT



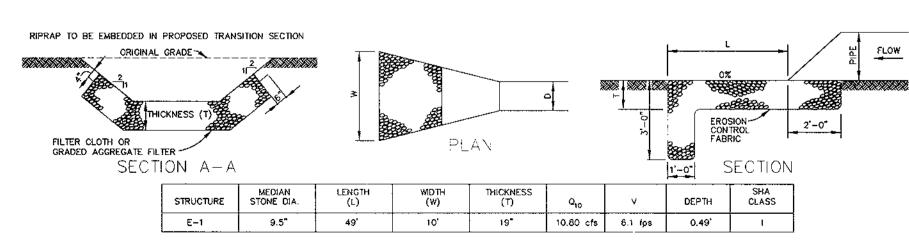
# VEXISTING S-4 DETAIL

NOTES: 1. OTHER THAN THE MODIFICATIONS SHOWN HERE, THIS STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH HO. CO. STD. DETAIL SD 4.01, HOWEVER A BRICK STRUCTURE IS NOT ALLOWED.

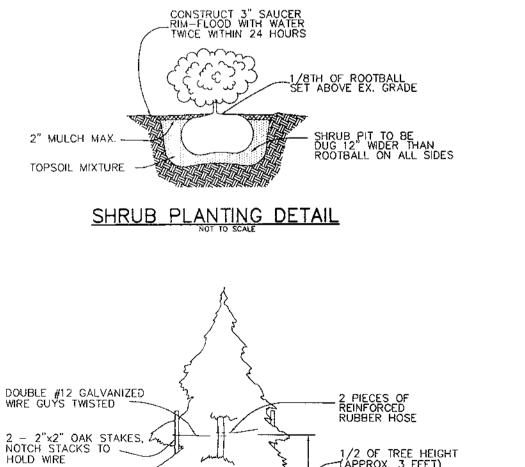
- 2. SHOP DRAWINGS TO BE SUBMITTED TO HOWARD COUNTY AND CONSULTANT PRIOR TO FABRICATION.
- 3. DURING CONSTRUCTION, OPENING TO BE BLOCKED USING PLYWOOD BOLTED TO INSIDE OF RISER UP TO ELEV. 315.5. ALL SEALS TO BE WATER TIGHT A 3" WIER STARTING AT 312.0 TO BE CUT INTO PLYWOOD.
- 4. REMOVE EXISTING TRASH RACK IF NECESSARY TO ATTACH PLYMOOD AND REPLACE AFTER PLYWOOD IS IN PLACE.



CORE TRENCH DETAIL

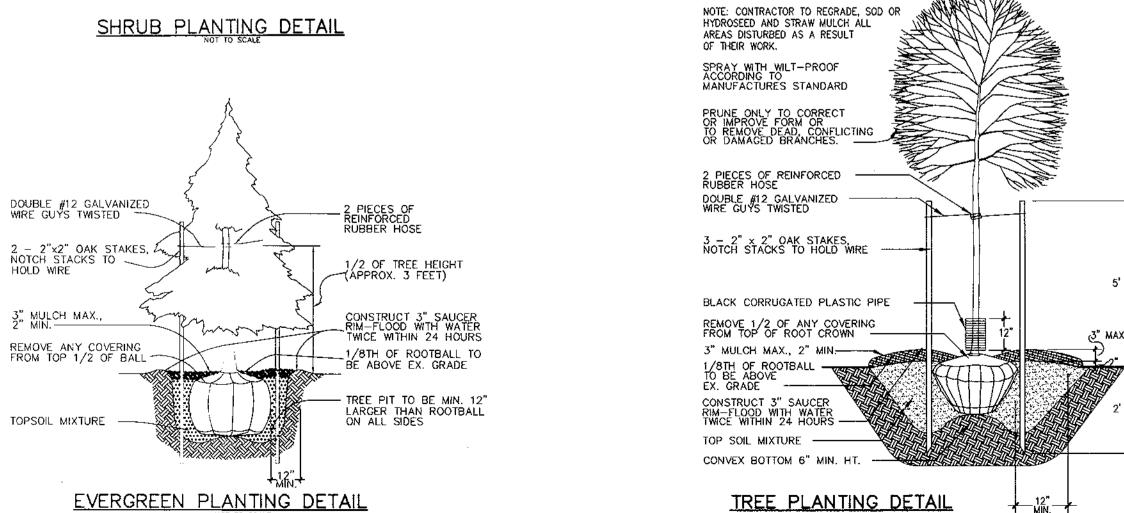


RIPRAP OUTLET PROTECTION DETAIL



SECTION A-A THROUGH EMBANKMENT

VERT. -1"=5"



PLANTING DETAILS

AS-BUILT 9/11/00

BY THE DEVELOPER I/WE CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION WILL BE DONE ACCORDING TO THESE PLANS, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I SHALL ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT. BY THE ENGINEER: THESE PLANS FOR SMALL POND CONSTRUCTION, SOIL COUNTY HEALTH OFFICER MR DATE NO. OWNER. AUDREY OWENS ETAL 7533 GLENEAGLE DR JESSUP, MD 20794 (410)799-4655 DEVELOPER PROJECT Howard County, Maryland

DATE

10.7.99

4.12.00

DATE

CERTIFICATE

I CERTIFY THAT THIS PLAN FOR POND CONSTRUCTION, EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS. THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT. I HAVE NOTIFIED THE DEVELOPER THAT HE/SHE MUST ENGAGE A REGISTERED PROFESSIONAL ENGINEER TO SUPERVISE POND CONSTRUCTION AND PROVIDE THE HOWARD SOIL CONSERVATION DISTRICT WITH AN "AS-BUILT" PLAN OF THE POND WITHIN 30 DAYS OF COMPLETION.

8-6.99 DATE

THESE PLANS HAVE BEEN REVIEWED FOR THE HOWARD SOIL CONSERVATION DISTRICT AND MEET THE TECHNICAL REQUIREMENTS FOR SMALL POND CONSTRUCTION, SOIL EROSION AND SEDIMENT CONTROL.

EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND

DATE Unida Hanatta

REVISION

OWNER M HOSPITALITY MANAGEMENT,IN 6251 WASHINGTON BLVD. ELKRIDGE, MD 21075 (41*0*)379-3*0*95

> ASTON PROPERTIES 6525 MORRISON BLVD., SUITE 300 CHARLOTTE, NC 28211 (704)366-7337

> > CVS RETAIL STORE

Parcels 259 \$ 260 Tax Map 37 Block 14, 20 Zoned B-1, B-2 6th Election District

SWM PROFILES AND DETAILS

RIEMER MUEGGE & ASSOCIATES INC ENGINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING 8818 Centre Park Drive, Columbia, MD 21045 tel 410.997.8900 fax 410.997.9282



DESIGNED BY : C.J.R. DRAWN BY : D.A.M. PROJECT NO :98313 SDP6.DWG

> DATE : OCTOBER 13, 1999 SCALE : AS SHOWN DRAWING NO. 6 OF 8

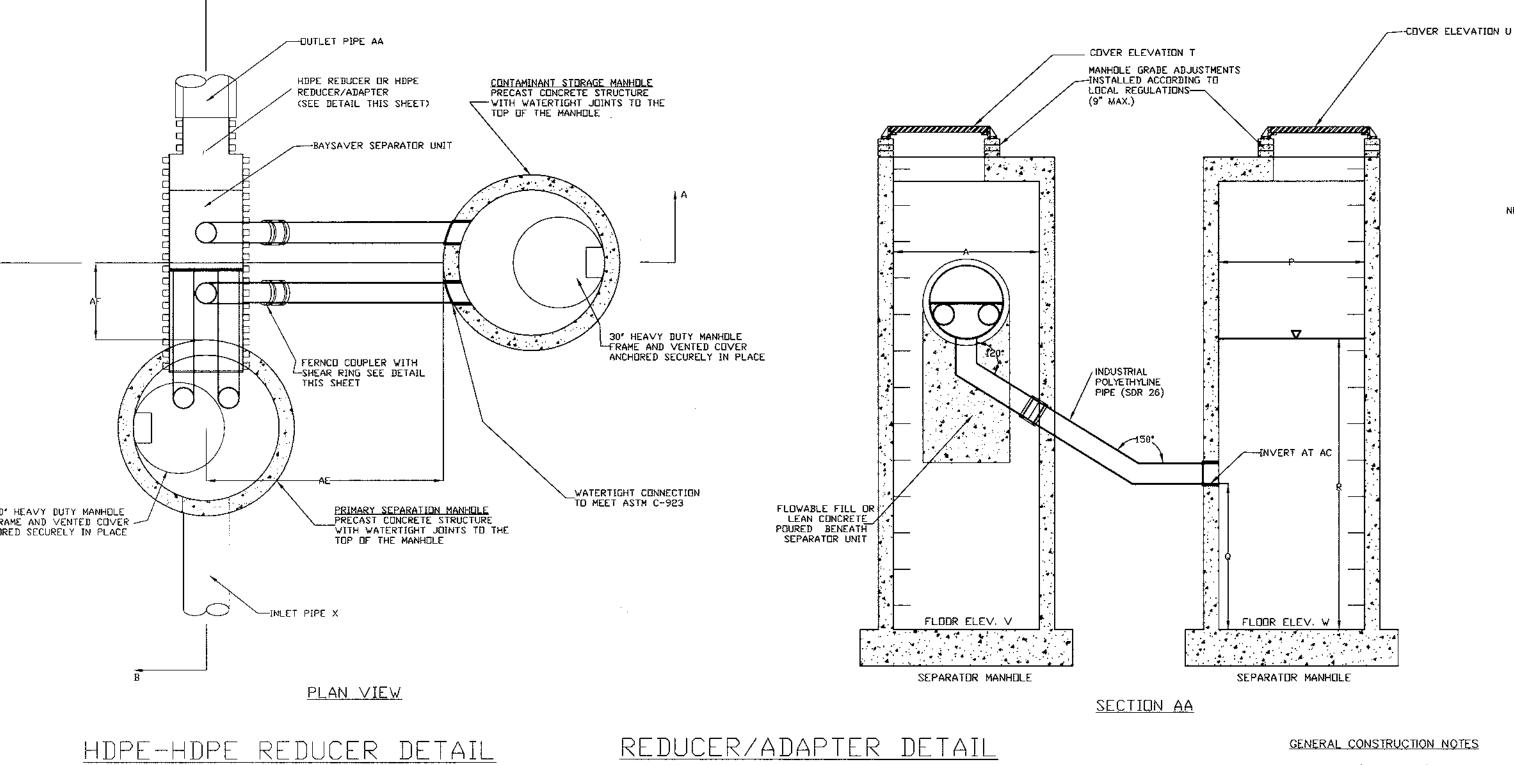
4 CORRUGATIONS

GASKETED COLLAR

── (FROM HDPE

NOT TO SCALE

PLAN VIEW



FOR USE WITH DUTLET PIPES OTHER THAN HOPE

- RCP OUTLET PIPE

—2 CORRUGATIONS

MORTAR

OUTLET PIPE WALL THICKNESS

SECTION AA

NOT TO SCALE

24" CORRUGATED\_

GASKETED COLLAR

MANUFACTURER)

KEROM HDPE 🗹

Manhole Specifications:

Primary Manhole Inverts:

Floor Elevations:

inlet pipes above.

Cover Elevations:

Primary Manhole Diameter: 60 inches Storage Manhole Diameter: 60 \_\_inches

Primary Manhole 311.55 Storage Manhole 311.55

Separator Unit\_ 319.55 28

Inlet Pipe(s)\_\_\_319.<del>82</del> :55

Primary Manhole 315.0

Storage Manhole <u>315.0</u>

\_\_\_\_\_\_

Please show orientation (incliding angle), size and material of

This order can be faxed to Bay Saver, Inc. at (301) 829-3747

MQ-1/MQ-1A

GENERAL CONSTRUCTION NOTES

1. ALL WORK MUST BE DONE WITH REGARD FOR THE SAFETY OF THE CONSTRUCTION CREW.

NON-SHRINK GROUT-

INVERT AT Y-

2. ALL WORK AND MATERIALS MUST COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS.

3. KNOW THE LOCATION AND DEPTH OF ANY UNDERGROUND UTILITIES BEFORE EXCAVATION BEGINS.



-NON-SHRINK GROUT

FLOWABLE FILL OR LEAN CONCRETE POURED BENEATH

HDPE REDUCER OR REDUCER/ADAPTER

TO SYSTEM PIPE (SEE DETAIL THIS SHEET)

BAYSAVER MAINTENANCE

BAYSAVER SYSTEMS MUST BE INSPECTED AND MAINTAINED PERIODICALLY. INSPECTION IS MADE BY CHECKING THE DEPTH OF SEDIMENT IN EACH MANHOLE WITH A GRADE STICK OR SIMILAR DEVICE. MAINTENANCE IS REQUIRED WHEN THE SEDIMENT DEPTH IN EITHER MANHOLE EXCEEDS 2 FEET. MINIMUM INSPECTION IS REQUIRED TWICE A YEAR TO MAINTAIN OPERATION AND FUNCTION OF BAYSAVER.

MAINTENANCE CONSISTS OF THE FOLLOWING:

A. CONTAMINANT STORAGE MANHOLE

1. REMOVE THE ENTIRE VOLUME OF THE CONTAMINATED WATER BY VACUUM TRUCK.

2. CLEAN THE MANHOLE WALLS AND FLUSH OUT THE MANHOLE USING A HIGH PRESSURE HOSE AND REMOVE FLUSHING WATER BY VACUUM TRUCK. MAKE CERTAIN MANHOLE IS CLEAN.

B. PRIMARY SEPARATION MANHOLE

1. USING A SUBMERSIBLE PUMP, PUMP THE CLEAN WATER FROM THE CENTER OF THE MANHOLE DIRECTLY INTO THE EMPTY STORAGE MANHOLE UNTIL THE WATER LEVEL FALLS TO 1 FOOT ABOVE THE SEDIMENT LAYER.

2. REMOVE THE SETTLED SEDIMENT AND REMAINING WATER BY VACUUM

3. CLEAN THE MANHOLE WALLS AND FLUSH DUT THE MANHOLE USING A HIGH PRESSURE HOSE AND REMOVE FLUSHING WATER BY VACUUM TRUCK. MAKE CERTAIN MANHOLE IS CLEAN.

4. CONTAMINATED MATERIAL REMOVED FROM THE MANHOLES MUST BE DISPOSED OF RESPONSIBLY AND LEGALLY BY THE OPERATOR OF THE VACUUM TRUCK. BAYSAVER INSTALLATION INSTRUCTIONS

EXCAVATION MUST PROVIDE ADEQUATE SPACE TO CONNECT INLET AND DUTLET PIPES TO SEPARATOR MANHOLE AND BAYSAVER UNIT. INSTALL PRECAST DROP STRUCTURES ON SOLID GROUND AS VERIFIED BY A GEDTECHNICAL ENGINEER.

VERIFY THE SUBGRADE ELEVATION AGAINST THE MANHOLE DIMENSIONS AND CONNECTING STORM DRAIN INVERTS.

3. MAKING SURE THE BASES ARE LEVEL AND THE STORAGE MANHOLE OPENINGS ARE ALIGNED WITH THE SEPARATOR UNIT INSTALL PRIMARY AND STORAGE MANHOLES. INSTALL RUBBER GASKETS ON BASE UNITS AND COAT WITH LUBRICATING GREASE. INSTALL ADDITIONAL MANHOLE SECTIONS AS REQUIRED. SEAL LIFT HOLES WITH NON-SHRINK GROUT.

4. BACKFILL BASE SECTIONS OF MANHOLES TO INVERT OF STORAGE MANHOLE CONNECTING PIPES. USING APPROVED BACKFILL MATERIAL, BACKFILL AND COMPACT IN 8 INCH LIFTS. BACKFILL AND COMPACTION SHOULD BE MONITORED BY A GEDTECHNICAL ENGINEER.

5. INSTALL BAYSAVER SEPARATOR UNIT AND CONNECTING PIPES. SEAL ALL CONNECTING JOINTS AND INSTALL SEPARATOR UNIT/STORM DRAIN JOINT COLLAR. CUT EXCESS LENGTH OFF CONNECTING PIPES INSIDE STORAGE MANHOLE,

6. BACKFILL SEPARATOR UNIT AND MANHOLES. AREAS NOT ACCESSIBLE TO COMPACTION EQUIPMENT MUST BE BACKFILLED WITH LEAN CONCRETE OR FLOWABLE FILL.

7. INSTALL AND SET MANHOLE COVER GRADE ADJUSTMENT

8. INSTALL AND SET MANHOLE FRAME AND COVER UNITS.

	DHISHAEK 212	ום וים ו	.1,1[1/2][	71/1/2				
	DESCRIPTION	1K SYSTEM	3K SYSTEM	5K SYSTEM				
	SEPARATOR MANH	IDLE DIMENSI	<u>2ND</u>					
Α	PRIMARY MANHOLE DIAMETER	48"	60 <b>'</b>	72 <b>'</b>				
В	MANHOLE DEPTH BELOW OUTLET	8' - 0 <b>'</b>	8' - 0 <b>"</b>	8' - 0 <b>'</b>				
С	MINIMUM FLUID DEPTH	8' - 3 <b>'</b>	8' - 4 1/2 <b>'</b>	8' - 6"				
	STANDARD SEPARATI	OR UNIT DIME	NSIONS	•				
D	SEPARATOR UNIT ID	24"	36 <b>′</b>	48*				
Ε	SEPARATOR UNIT LENGTH	60 <b>′</b>	78.2*	75.4*				
F	BYPASS PLATE LENGTH	34"	45"	45 <b>*</b>				
G	WEIR/BYPASS PLATE THICKNESS	3/4*	3/4*	3/4*				
н	ELBOW AND CONNECTING PIPE OD	7.125*	10.75*	12.75"				
Ι	ELBOW LENGTH	48"	48"	48*				
J	WEIR HEIGHT ABOVE INVERT	3*	4*	6 <b>'</b>				
к	BYPASS PLATE HEIGHT ABOVE INVERT	12"	18*	24"				
L	WIDTH OF WEIR AT BASE	3'	4 1/2"	6 <b>*</b>				
М	OUTLET PIPE DIAMETER	М	М	М				
N	ELBOW INVERT HEIGHT ABOVE UNIT INVERT	4 1/2"	7 1/2*	11"				
0	ELBOW PIPE OVERHANG	12*	18*	24"				
STORAGE MANHOLE DIMENSIONS								
Р	STORAGE MANHOLE DIAMETER	48*	60 <b>"</b>	72 <b>*</b>				
Q	MANHOLE DEPTH BELOW INLET/OUTLET	48*	48'	48″				
R	FLUID DEPTH	8' - 0 <b>'</b>	8' - 0 <b>'</b>	8' - 0"				
S	TOTAL STORAGE VOLUME	200 CF	300 CF	450 CF				
•	SYSTEM DIMENSION	IS AND ELEV	ATIONS					
T	SEPARATOR MANHOLE COVER ELEVATION	Т	Т	T				
υ	STORAGE MANHOLE COVER ELEVATION	U	U	U				
V	SEPARATOR MANHOLE FLOOR ELEVATION	V	· V	V				
V	STORAGE MANHOLE FLOOR ELEVATION	V	V	W				
х	INLET PIPE ID AND MATERIAL	X1	X1	X1				
		X5	X5	X5				
Υ	INLET PIPE INVERT	Y1	Y1	Y1				
		Y2	Y2	Y2				
Z	SEPARATOR UNIT INVERT	Z	Z	Z				
AA	OUTLET PIPE ID AND MATERIAL	AA	AA	AA				
AΒ	ELBOW INVERT ELEVATION	AB	AB	AB				
AC	CONNECTING PIPE INVERT ELEVATION	AC	AC	AC				
ΑD	CONNECTION PIPE SPACING	20*	24"	24*				

STORAGE MANHOLE SIDE OFFSET

STORAGE MANHOLE DOWNSTREAM OFFSET

			·····		T_ , ,_	•••••						
EQUENCE	OF	CONSTRUCTION	AND	INSPECTOR'S	CHECK-OFF	LIST	FOR	DUAL	MANHO	LE	SEPARA	TORS

D 1 D D D D D D D D D D D D D D D D D D		Stage (X = Approval Required)		Developer's/Engineer Approval		Inspector		Geotechnical Engineer	
Project: <u>CVS</u> Address: <u>MATERLOO RD</u>	Designer: <u>RIEMER MUEGGE</u> Contact: CHRIS REID		Initials	Date	Initiols	Date	Initials	Dote	
ELKRIDGE, MD.	Phone: 410-997-8900	1. Pre-Construction Meeting.	X		X		X		
21075 Delivery Date:	Fax: 410-997-9282	Install Manholes and associated storm     drainage:     a. Obtain approval of subgrade from Geotechnical Engineer.     (Subgrade to have a minimum of 95% compaction)					X		
Owner:	Address:	b. Installation of precast base, lower tank and lower piping.	X		X				
Address:	Contact:	c. Backfill and min. 95% compaction around lower tank and lower piping.					X		
	Fax:	d. Installation of precast middle section(s) with separator unit and remaining piping.	X		X				
Separator Unit Model: /		e. Installation of precast top slab.	X		X				
1K		f. Installation of adjustment rings and frame and cover.	Х		X				
3К <b>■</b>		g. Installation of flowable fill or concrete backfill.					X		
5K □ \	$\cap$ / $\cap$ $\mid$	3. Backfilling operation and compaction.					Х		
	Circle system orientation above	<ol> <li>Site is permanently stabilized. Sediment control measures removed and all sediment and debris removed from dual manhole separators.</li> </ol>			X				
		5. Final inspection.			X				

Baysaver Separator Unit	Baysaver Manhole Sizes (prim. x stor.)	Maximum Treatment (cfs)*1	Maximum Treatment (gpm)*1	Impervious Area (acres)
1K Baysaver Separator	48x48 48x50 48x72 60x60	2.4 2.4 2.4 2.4	1076 1076 1076 1076	1.2 1.4 1.6 1.5
3K Baysaver Separator	60x60 60x72 60x84 72x72	7.2 7.2 7.2 7.2	3231 3231 3231 3231 3231	3.6 4.1 4.6 4.4
5K Baysaver Separator	72×72 72×84 72×96	11.1 11.1 11.1	4981 4981 4981	5.5 6.5 7.5

BAYSAVERS ARE TO BE INSTALLED WITH THE STORM DRAIN SYSTEM AND WILL FUNCTION AS SECONDARY SEDIMENT CONTROL DEVICES. UPON COMPLETION OF SITE STABILIZATION, EACH BAYSAVER SYSTEM SHALL BE FLUSHED CLEAN & THE MANHOLES CLEANED OUT AND REFILLED WITH CLEAN WATER.

NOTE: DIMENSIONAL SHOP DRAWINGS ARE TO BE APPROVED BY THE DESIGN

BAYSAVER SYS	TEM D	[MENSI	ZNE
DESCRIPTION	1K SYSTEM	3K SYSTEM	5K SYSTEM
SEPARATUR MANI	HOLE DIMENSI	<u>2ND</u>	
PRIMARY MANHOLE DIAMETER	48 <b>"</b>	60 <b>°</b>	72 <b>'</b>
MANHOLE DEPTH BELOW OUTLET	8' - 0 <b>'</b>	8' - 0"	8′ - 0″
MINIMUM FLUID DEPTH	8' - 3 <b>'</b>	8' - 4 1/2 <b>'</b>	8' - 6"
STANDARD SEPARAT	OR UNIT DIME	NSIONS	
SEPARATOR UNIT ID	24"	36 <b>′</b>	48*
SEPARATOR UNIT LENGTH	60'	78.2*	75.4*
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WEIR/BYPASS PLATE THICKNESS	3/4*	3/4*	3/4*
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ELBOW LENGTH	48"	48"	48*
WEIR HEIGHT ABOVE INVERT	3*	4*	6'
BYPASS PLATE HEIGHT ABOVE INVERT	12*	18*	24"
WIDTH OF WEIR AT BASE	3*	4 1/2"	6*
DUTLET PIPE DIAMETER	М	М	М
ELBOW INVERT HEIGHT ABOVE UNIT INVERT	4 1/2"	7 1/2*	11"
ELBOW PIPE OVERHANG	12*	18*	24"
STORAGE MANHO	LE DIMENSIO	NS.	
STORAGE MANHOLE DIAMETER	48*	60*	72 <b>*</b>
MANHOLE DEPTH BELOW INLET/OUTLET	48*	48*	48″
FLUID DEPTH	8' - 0 <b>'</b>	8' - 0 <b>'</b>	8' - 0"
TOTAL STORAGE VOLUME	200 CF	300 CF	450 CF
SYSTEM DIMENSION	S AND ELEV	ATIONS	
SEPARATOR MANHOLE COVER ELEVATION	T	Т	T
STORAGE MANHOLE COVER ELEVATION	U	U	U
SEPARATOR MANHOLE FLOOR ELEVATION	V		V
STORAGE MANHOLE FLOOR ELEVATION	W	W	W
INLET PIPE ID AND MATERIAL	X1 X2	X1 X2	X1 X2
INLET PIPE INVERT	Y1 Y2	Y1 Y2	Y2 Y1
SEPARATOR UNIT INVERT	Z	Z	Z
BUTLET PIPE ID AND MATERIAL	AA	AA	AA
ELBOW INVERT ELEVATION	AB	AB	AB

72 ± 6°

23\*

72 ± 6"

31\*

72 ± 6"

APPROVED : HOWARD COUNTY DEPARTMENT OF PLANNING AND CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE NO. OWNER AUDREY OWENS ETAL 7533 GLENEAGLE DR. JESSUP, MD 20794 (410)799-4655 DEVELOPER TITLE

ASTON PROPERTIES 6525 MORRISON BLVD., SUITE 300 CHARLOTTE, NC 28211 (704)366-7337 PROJECT CVS RETAIL STORE Parcels 259 # 260 Tax Map 37 Block 14, 20 Zoned B-1, B-2 6th Election District Howard County, Maryland MATER QUALITY NOTES AND DETAILS RIEMER MUEGGE & ASSOCIATES INC ENGINEERING ● ENVIRONMENTAL SERVICES ● PLANNING ● SURVEYING 8818 Centre Park Drive, Columbia, MD 21045 tel 410.997.8900 fax 410.997.9282 DESIGNED BY : C.J.R. DRAWN BY : D.A.M. PROJECT NO :98313 SDP7.DWG DATE : OCTOBER 13, 1999

FERNOD FITTING DETAIL

(NOT TO SCALE)

1056-1010

1004-1010

CHRISTOPHER J. REID # 19949

COUNTY HEALTH OFFICER MI

SHEAR RING

SR-27

SR-39

SR-44

BUILT CERTIFICATE

APPROVED : FOR PUBLIC WATER AND PUBLIC SEWERAGE

SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT

REVISION

OM HOSPITALITY MANAGEMENT, INC

6251 WASHINGTON BLVD.

ELKRIDGE, MD 21075 (410)379-3095

SCALE : AS SHOWN

DRAWING NO. 7 OF 8

OWNER

9.12.00

DATE

DISTANCE AD FERNOO NO.

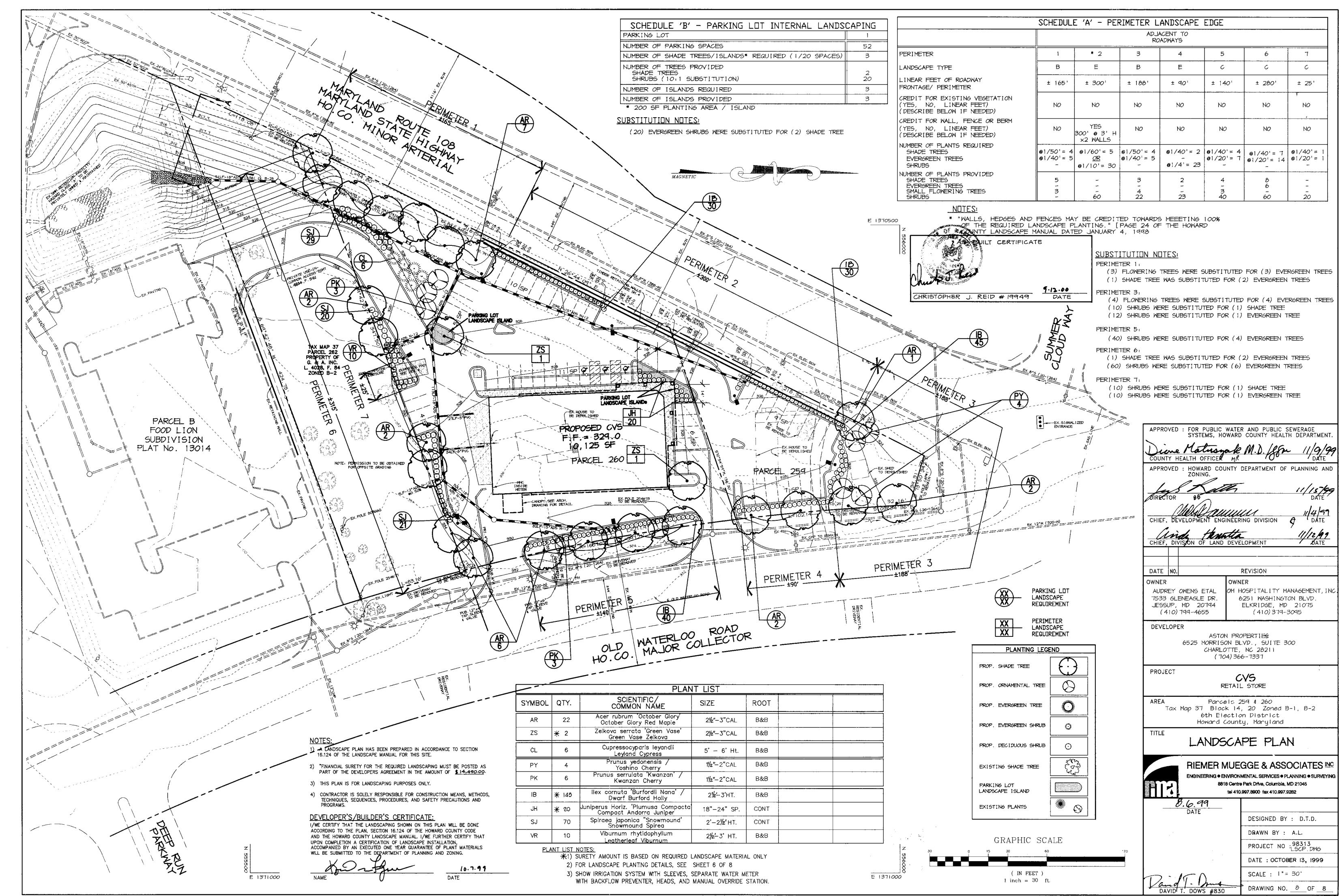
7.10\*

10.60"

12.73\*

AS - BUILT 9/11/00 SDP-99-123

ARTHUR E. MUEGGÉ #8707



AS - BUILT 9/11/00 SDP-99-123